

AMENDMENTS TO THE CLAIMS:

Claim 1. (Currently amended) An antenna comprising:

a dielectric substrate in which a plate thickness decreases from a central region to an annular region thereof ~~is configured to be different at each of regions~~; and

a plurality of flat antenna patterns provided on the each of regions of the dielectric substrate,

wherein the plurality of flat antenna patterns each receives or transmits electric waves having different frequency bands respectively.

Claim 2. (Currently amended) The antenna according to claim 1,

wherein a back side of the dielectric substrate is configured to be flat, the back side opposes to a ~~the~~ side where the plurality of antenna patterns are provided,

wherein the back side of the dielectric substrate comprises a grounding conductor formed on the back side.

Claim 3. (Original) The antenna according to claim 2, wherein the dielectric substrate is made of a synthetic resin material.

Claim 4. (Currently amended) The antenna according to claim 2, ~~wherein the regions comprises:~~

a wherein said central region is defined by a single closed line, ~~and~~

wherein said annular region comprises a plurality of annular regions surrounding the central region and each defined by two concentric closed lines,

wherein the plurality of annular regions are configured to have different height.

Claim 5. (Currently amended) The antenna according to claim 2, wherein the flat antenna patterns are disposed on each of the regions in an order of ~~the~~ frequency bands of ~~the~~ electric waves that each of the flat antenna patterns receives or transmits.

Claim 6. (Canceled).

Claim 7. (Currently amended) The antenna according to claim 4, wherein a ~~the~~ thickness of each of the regions of the dielectric substrate are configured to decrease sequentially from the central region to the annular region that is positioned outermost.

Claim 8. (Currently amended) The antenna according to claim 4, wherein ~~the~~ frequency bands of ~~the~~ electric waves that each of the flat antenna patterns receives or transmits are configured to increase sequentially from the frequency bands of the electric wave that a flat antenna pattern disposed on the central region receives or transmits, to the frequency bands of the electric wave that a ~~the~~ flat antenna pattern disposed on the annular region that is positioned outermost receives or transmits.

Claim 9. (New) The antenna of claim 1, wherein each of said central region and said annular region is rectangular.

Claim 10. (New) The antenna of claim 1, wherein a front side of said dielectric substrate,

upon which said plurality of flat antenna patterns are provided, is flat and wherein a back side of said dielectric substrate is stepped.

Claim 11. (New) An antenna comprising:

a dielectric substrate having a thickness that decreases from a central region to an annular region;

a first antenna pattern on a first side of said dielectric substrate in said central region;
and

a second antenna pattern on said first side of said dielectric substrate in said annular region.

Claim 12. (New) The antenna of claim 11, wherein a second side of said dielectric substrate is flat.

Claim 13. (New) The antenna of claim 12, wherein said first side is stepped.

Claim 14. (New) The antenna of claim 11, wherein said first side of said dielectric substrate is flat.

Claim 15. (New) The antenna of claim 14, wherein a second side of said dielectric substrate is stepped.

Claim 16. (New) The antenna of claim 11, wherein said dielectric substrate comprises a

synthetic resin.

Claim 17. (New) The antenna of claim 11, wherein said annular region comprises a plurality of annular regions and wherein said second antenna pattern comprises a plurality of antenna patterns.